

# LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

## Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

HOLCIM (US), INC.

Pursuant to "The Land Reclamation Act," RSMo. 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of

limestone & shale in the state of Missouri. The extent of the

Proposed mining operation(s) will be on 258 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: **Renewal**

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Pike	13, 14, 18, 23, 24	53N	01W, 01E	258	0	258	Clarksville	1399

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this 4th day of March 2004

Permit No. 0498

Effective Date 03/28/2004

Expiration Date 03/27/2005

Nfo 780-1122 (6-95)

DIRECTOR OF STAFF

Land Reclamation Commission

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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES**

MAR 1 2004

P.O. BOX 176  
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL <b>HOLCIM (US) INC</b>		MISSOURI LAND RECLAMATION COMMISSION	
ADDRESS <b>14738 HWY 79</b>	CITY <b>CLARKSVILLE</b>	STATE <b>MO</b>	ZIP CODE <b>63336</b>
CONTACT PERSON <b>Larry D. Scales - Quarry &amp; Raw Materials Coordinator</b>		TELEPHONE NUMBER <b>(573) 242-3571 ext. 1113</b>	
<b>FEES: COMPLETE SECTION I OR SECTION II</b>			
<b>SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:</b>			
1. To compute the site fee complete the information below:			
SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year	For sites operated less than six months: per permit year pay \$150 For sites operated six months or more: per permit year pay \$300	
1. <b>0498</b>	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	<b>\$ 300</b>	
2.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
3.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
4.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
5.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
7.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
9.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
10.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$	
TOTAL SITE FEE		<b>\$ 300</b>	
2. Acreage Fee \$5 X <b>258</b> number of acres bonded		<b>\$ 1290</b>	
3. Annual Permit Fee		<b>\$ 500</b>	
4. Total Fee (Add totals from 1, 2 and 3)		<b>\$ 2090</b>	
NOTE: If Total Fee exceeds \$2,500.00 then pay only		<b>\$ 2,500</b>	
<b>SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:</b>			
1. Annual Permit Fee		<b>\$ 300</b>	
SIGNATURE OF APPLICANT <i>Larry D. Scales</i>	TITLE <b>Quarry &amp; Raw Materials Coordinator</b>	DATE <b>2-27-04</b>	
Appeared before me this <b>27th</b> day of <b>February</b> , 20 <b>04</b> , <b>Larry D. Scales</b> to me personally known, who executed the above as their free acts and deeds.			
NOTARY PUBLIC EMBOSSER SEAL	STATE OF <b>Missouri</b>	COUNTY (OR CITY OF ST. LOUIS) <b>Pike</b>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <b>27th</b> DAY OF <b>Feb.</b> YEAR <b>2004</b>		USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE <i>June A. Lovell</i>	MY COMMISSION EXPIRES <b>May 4, 2007</b>	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <b>June A. Lovell</b>		
FOR DEPARTMENT USE ONLY: APPROVED BY <i>[Signature]</i>	DATE APPROVED <b>3-2-04</b>	PERMIT NUMBER <b>498</b>	EXPIRATION DATE



OCT 19 2000

MISSOURI LAND  
RECLAMATION COMMISSION

SITE NAME OR NUMBER HOLNAM INC.		PERMIT NUMBER 0498
COMPANY NAME HOLNAM INC.		
COUNTY PIKE	1/4 SECTION N/A	SECTION 13,14,18,23,24
TOWNSHIP 53N	RANGE R1W & R1E	ACRES 1060
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) N/A		
MINERAL COMMODITY LIMESTONE / SHALE		ESTIMATED TONS/YEAR (FOR GRAVEL SITES) N/A

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)		
HOLNAM INC.		
ADDRESS		
P. O. BOX 67, HWY 79 NORTH		
CITY	STATE	ZIP CODE
CLARKSVILLE	MO	63336
SOURCE OF RIGHT TO MINE (CHECK ONE):		DATE OF AGREEMENT
<input type="checkbox"/> MINERAL DEED		
<input checked="" type="checkbox"/> WARRANTY DEED		
<input type="checkbox"/> OTHER (DESCRIBE):		
<input type="checkbox"/> LEASE		
<input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)  <div style="border: 1px solid black; padding: 5px; margin: 5px 0;">           SAME AS ABOVE         </div>		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE):  <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> MINERAL DEED   <input type="checkbox"/> WARRANTY DEED   <input type="checkbox"/> OTHER (DESCRIBE): _____         </div> <div> <input type="checkbox"/> LEASE   <input type="checkbox"/> VERBAL AGREEMENT         </div> </div>		DATE OF AGREEMENT

MO 780-1036 (12-91)



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

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P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

MISSOURI LAND  
RECLAMATION COMMISSION

- ☐ SHORT TERM, FOR ONE PERMIT YEAR  
☒ LONG TERM, FOR PERIOD THROUGH DATE: 11/1/2075 (75 years)

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

HOLNAM QUARRY

This plan covers an area of approximately 1060 acres which will be mined in the next 75 years. This quarry lies to the north of Route N and gently slopes to the south. Topsoil is abundant and the land is presently used for pasture and farming.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

**A. TOPSOIL**

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

12

INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

After the trees are removed by dozers, the topsoil will be removed and either, stockpiled for later use, or utilized for on-going reclamation. Topsoil removal and stripping, will mainly be done during fair weather months. All topsoil removal will be done well ahead of any stripping, or stripping deposition, if applicable.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

As necessary, scrapers will stockpile the topsoil. All stockpiles will be graded and seeded to prevent wind or water erosion.

**B. SPOIL .**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

The majority of the overburden will be deposited in the mined out quarry. However, as the topography dictates, valleys and drainage areas will be filled to prevent water inflow into the quarry.

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MISSOURI LAND  
RECLAMATION COMMISSION**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

The present quarry covers approximately 1060 acres and will advance in a southwesterly direction using approximately 2,200,000 tons of limestone and shale per year along a face of a northwest-southeast direction of approximately 2500 feet in length.

**YES NO**

☐ ☒ Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐ ☒ Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐ ☒ Will any excavation start at or within fifty feet (50') of any property line?  
(NOTE: If the answer is "yes", a safety barrier may be needed.)

OCT 19 2000

## RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

## A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1

#1

PURPOSE OR LAND USE

PASTURE

MISSOURI LAND  
RECLAMATION COMMISSION

B. SEEDING OR PLANTING TIME

Spring (3/15 - 5/30) or  
Fall (9/15 - 10/15)

## DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Following completion of topsoil replacement procedures, planting dates and weather permitting, the seed bed will be prepared by Holnam's farming operation and seeded with a Brillion seeder. Fertilization and reseeding will be done on a timely basis as or if needed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Annual Rye Grass	6#		
Kentucky 31 Tall Fescue	15#		
Lespedeza	10#		
(Occasionally Alfalfa)	10#		

REVEGETATION MIX #2

#2

PURPOSE OR LAND USE

INDUSTRIAL/RECREATION

B. SEEDING OR PLANTING TIME

SPRING OR FALL

## DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Because of the scope of our mining activity, the entire 200 foot deep quarry will never be filled completely with overburden.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
N/A			

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING****DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

All slopes will be graded such that farm machinery will traverse them safely at a 4.1 grade or less. The mined out quarry is about 200 feet deep and is presently dewatered of precipitation by pumping. Some of this quarry will eventually be filled with overburden to the original surface elevation and then covered with topsoil and seeded.

However, much of the mined out quarry will eventually be filled with water and have an end use of water impoundment.

The border of the entire quarry will have an end use of development.

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LAND  
RECLAMATION COMMISSION**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading will be accomplished as the stripping is done. Final grading will be done as the desired finished elevation is reached.

**REPLACEMENT OF TOPSOIL**

Topsoil will be spread on the finished fill areas as it is completed, this is dependent on the fill height which in the mined out quarry is nearly 200 feet.

**REVEGETATION**

Seeding will be done following topsoil replacement on a timely basis depending on time of year, weather, etc.

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

12 inches

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

0

Agricultural (pasture, cropland, and horticultural)

0

Development (residential, industrial, and recreational)

106

Water impoundments (for wildlife, agricultural, or development)

954

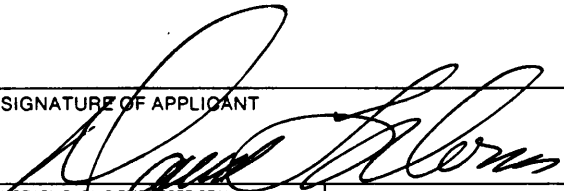

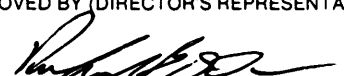
By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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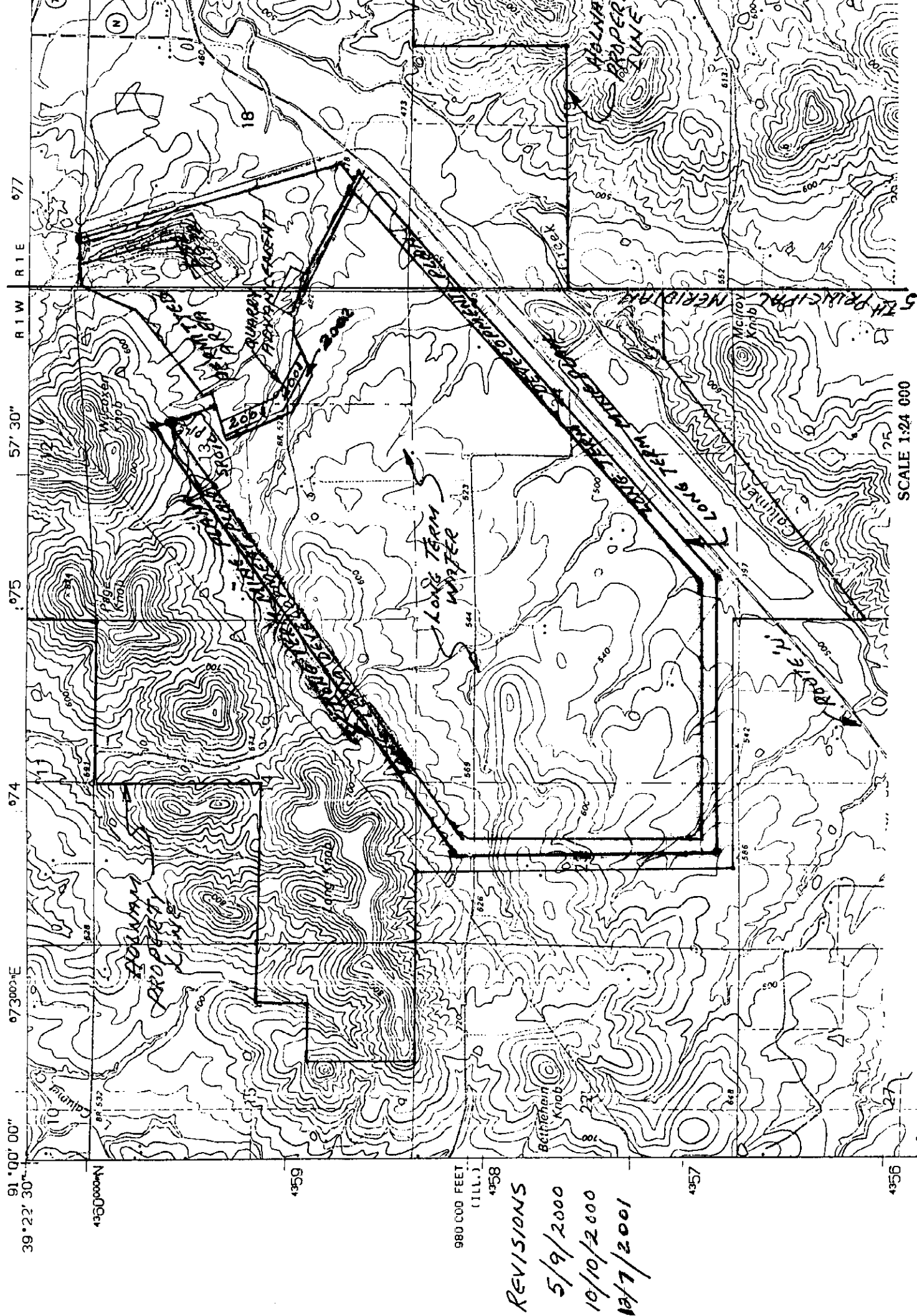
MISSOURI LAND  
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT 		TITLE PLANT MANAGER	DATE 10-17-00
NOTARY PUBLIC EMBOSSEY SEAL	STATE MISSOURI	COUNTY (OR CITY OF ST. LOUIS) PIKE	
SUBSCRIBED AND SWORN BEFORE ME, THIS 17th DAY OF October 2000		USE RUBBER STAMP IN CLEAR AREA BELOW	
NOTARY PUBLIC SIGNATURE 		MY COMMISSION EXPIRES 4-10-03	
NOTARY PUBLIC NAME (TYPED OR PRINTED) Laura M. Robinson			
APPROVED BY (DIRECTOR'S REPRESENTATIVE) 		DATE APPROVED 1-2-01	PERMIT NUMBER 0498



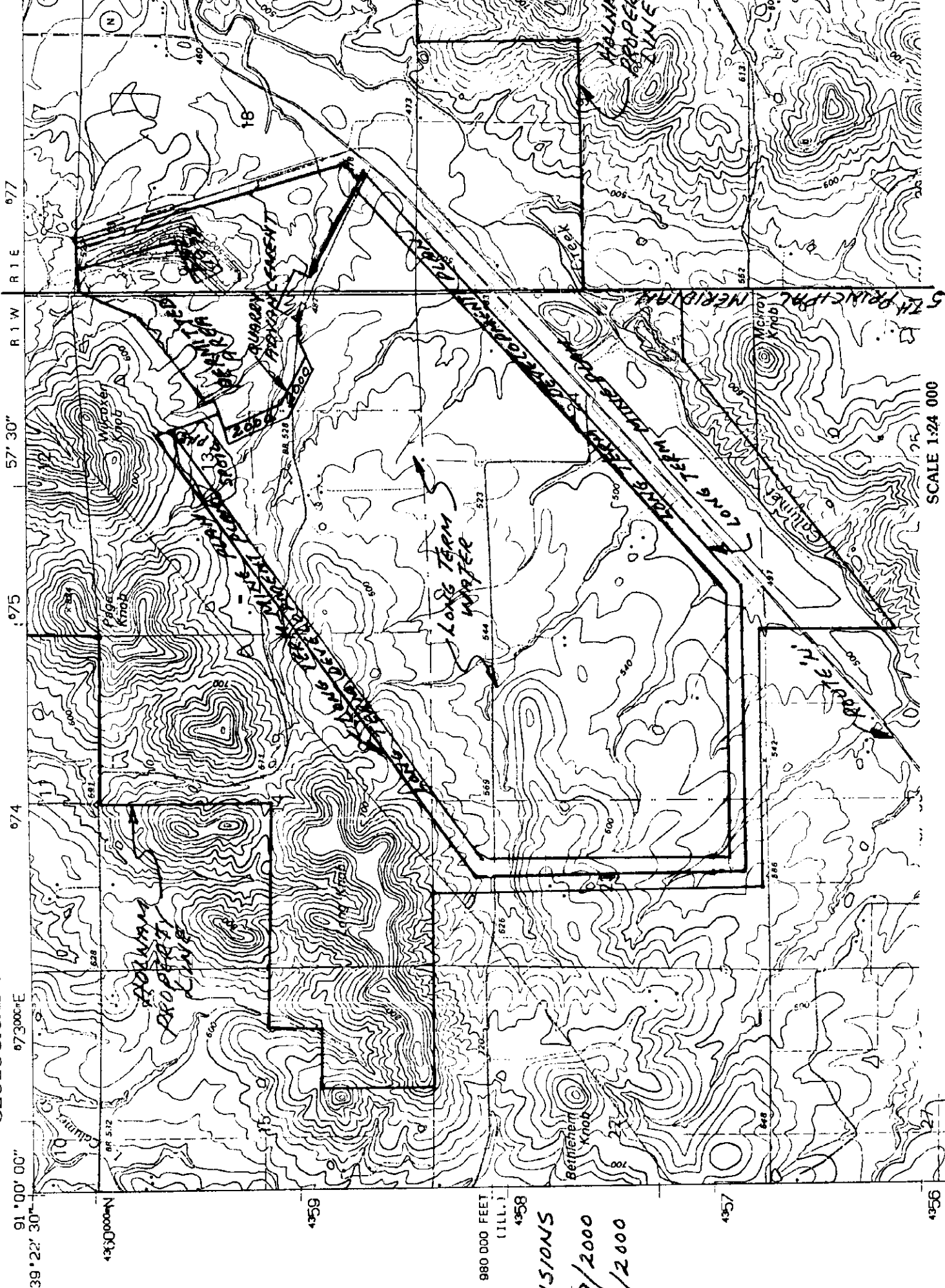
RL 5/00

TOWNSHIP 53N-



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

TOWNSHIP 53N



980 000 FEET  
(1:24,000)

4358

REVISIONS

5/9/2000

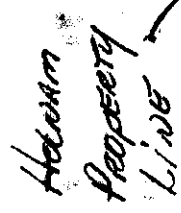
10/10/2000

4357

4356

SCALE 1:24 000

5<sup>th</sup> Principal  
MERIDIAN



Revisions  
5/9/00

SCALE 1:24 000

DISPOSAL  
AREA





## CLARKSVILLE LAND RECLAMATION LEGEND

[illegible]